INTERNATIONAL SEARCH REPORT

International application No.

		101/011	20047017702				
A. CLASSIFIC Int.Cl ⁷	ATION OF SUBJECT MATTER A61K31/569, 9/10, 47/12, 47/	14, 47/34, A61P27/02, 2	7/16				
According to Inte	ernational Patent Classification (IPC) or to both national	al classification and IPC					
B. FIELDS SEARCHED							
Minimum docum Int.Cl ⁷	nentation searched (classification system followed by cl A61K31/569, 9/10, 47/12, 47/1	assification symbols) 14, 47/34, A61P27/02, 2	7/16				
Documentation s	earched other than minimum documentation to the exte	ent that such documents are included in the	e fields searched				
Electronic data b	ase consulted during the international search (name of o	data base and, where practicable, search to	erms used) ·				
C. DOCUMEN	TTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
√ Y	JP 2000-7569 A (Senju Pharma Ltd.), 11 January, 2000 (11.01.00), Claims 1 to 4; Par. Nos. [000 (Family: none)	1-6					
√ Y	JP 10-259132 A (Senju Pharma Ltd.), 29 September, 1998 (29.09.98) Claims 1 to 3; Par. Nos. [000 [0007], [0015] & WO 98/31343 A2	1-6					
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family					
Date of the actual completion of the international search 05 January, 2005 (05.01.05)		Date of mailing of the international search report 25 January, 2005 (25.01.05)					
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer Telephone No.					
Facsimile No. Telephone No. Telephone No. Form PCT/ISA/210 (second sheet) (January 2004)							

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/017762

	DOCUMENTS CONSIDERED TO BE RELEVANT Citation of decument with indication, where appropriate of the relevant passages		Relevant to claim No.	
Category* Y	Citation of document, with indication, where appropriate, of the relevant passages WO 02/15878 Al (Senju Pharmaceutical Co., Ltd.), 28 February, 2002 (28.02.02), Claims 1 to 29; page 10, line 27 to page 11, line 22 & EP 1312356 Al		1-6	
Y	<pre>JP 8-151332 A (Senju Pharmaceutical Co., Ltd.), 11 June, 1996 (11.06.96), Claims 1 to 6; Par. No. [0010] & EP 709099 A2</pre>		1-6	
√ Y.	<pre>JP 10-316572 A (Senju Pharmaceutical Co., Ltd.), 02 December, 1998 (02.12.98), Claims 1 to 14; Par. Nos. [0004], [0006], [0008]</pre>		1-6	
	& EP 868919 A2 & US 5916550 A	•		
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International Searching Report

International Application No. PCT/JP2004/017762

V. Opinion under PCT Rule 43-2.1(a)(i) on Novelty, Inventive Step and Industrial Applicability, and the references supported thereof and explanation

1. Opinion

Novelty (N)	Claims	1 to 6	Yes
Inventive Step (IS)	Claims	1 to 6	No
Industrial Applicability(IA)	Claims	1 to 6	Yes

2. Cited references and Explanation

Reference 1: JP 2000·7569 A (Senju Pharmaceutical Co., Ltd.) 2000.01.11
Reference 2: JP 10-259132 A (Senju Pharmaceutical Co., Ltd.) 1998.09.29
Reference 3: WO 02/15878 A1 (Senju Pharmaceutical Co., Ltd.) 2002.02.28
Reference 4: JP 8-151332 A (Senju Pharmaceutical Co., Ltd.) 1996.06.11
Reference 5: JP 10-316572 A (Senju Pharmaceutical Co., Ltd.) 1998.12.02

(i) Inventions of Claims 1 to 6 do not have inventive steps from the references cited in the International Searching Report.

Reference 1 discloses a medicine for smell-disorder containing loteprednol etabonate in the form of a nasal-drop suspension(Claims 1 to 4). The reference also discloses para-oxybenzoic acid esters and sorbic acid etc as an additive, a nonionic surfactant as a suspending agent (0005), (0006).

Referring to References 2 and 3, in an aqueous suspension containing a hardly soluble drug such as loteprednol etabonate, an improvement of stability of the drug, preventing adhesion of the sedimented drug to the container and formation of blocking of the drug are know techniques. ((0003) in Ref. 2, page 2, lines 10-15 in Ref.3)

Referring to References 1 to 5, in an aqueous suspension of an eye-drop,

nasal-drop and ear-drop etc. containing hardly soluble drug such as loteprednol etabonate, sorbic acid, para-oxybenzoic acid ester and nonionic surfactant are known additives. ((0005) and (0006) in Ref.1, (0006) and (0007) in Ref.2, 4 line 27 on page 10 to line 22 of Ref.3, (0010) in Ref.4 and (0006) in Ref.5)

Therefore, in the inventions described in Ref.1, in order to improve the stability of the drug, and to prevent adhesion of the drug to the container, formation of aggregation of the drug, preparing the aqueous suspension containing loteprednol etabonate and compounding known additives such as sorbic acid, para-oxybenzoic acid ester and nonionic surfactant into the suspension is obvious to the skilled in the art and remarkable effect of the inventions by the compounding these additives can not been recognized.